

RAW SEQUENCE LISTING

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Application Serial Number: 09/444,067A

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DATE: 02/16/2005

PATENT APPLICATION: US/09/444,067A

TIME: 14:35:42

Input Set : N:\Cr3\RULE60\09444067A.raw.txt

Output Set: N:\CRF4\02162005\I444067A.raw

SEQUENCE LISTING

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3 (1) GENERAL INFORMATION:
5     (i) APPLICANT: Murphy, Brian R.
6             Collins, Peter L.
7             Whitehead, Stephen S.
8             Bukreyev, Alexander A.
9             Juhasz, Katalin
11    (ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
12             SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES
14    (iii) NUMBER OF SEQUENCES: 14
16    (iv) CORRESPONDENCE ADDRESS:
17            (A) ADDRESSEE: Townsend and Townsend and Crew LLP
18            (B) STREET: Two Embarcadero Center, 8th Floor
19            (C) CITY: San Francisco
20            (D) STATE: CA
21            (E) COUNTRY: USA
22            (F) ZIP: 94111-3834
24    (v) COMPUTER READABLE FORM:
25            (A) MEDIUM TYPE: Floppy disk
26            (B) COMPUTER: IBM PC compatible
27            (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28            (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
30    (vi) CURRENT APPLICATION DATA:
C--> 31            (A) APPLICATION NUMBER: US/09/444,067A
C--> 32            (B) FILING DATE: 19-Nov-1999
33            (C) CLASSIFICATION:
49    (vii) PRIOR APPLICATION DATA:
W--> 36            (A) APPLICATION NUMBER: US/09/444,221
37            (B) FILING DATE: 19-NOV-1999
W--> 38            (A) APPLICATION NUMBER: US 08/892,403
39            (B) FILING DATE: 15-JUL-1997
W--> 42            (A) APPLICATION NUMBER: US 60/047,634
43            (B) FILING DATE: 23-MAY-1997
W--> 46            (A) APPLICATION NUMBER: US 60/046,141
47            (B) FILING DATE: 09-MAY-1997
W--> 50            (A) APPLICATION NUMBER: US 60/021,773
51            (B) FILING DATE: 15-JUL-1996
53    (viii) ATTORNEY/AGENT INFORMATION:
54            (A) NAME: Parmelee, Steven W.
55            (B) REGISTRATION NUMBER: 31,990
56            (C) REFERENCE/DOCKET NUMBER: 17634-000510
58    (ix) TELECOMMUNICATION INFORMATION:
59            (A) TELEPHONE: 206-467-9600

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60 (B) TELEFAX: 415-576-0300

63 (2) INFORMATION FOR SEQ ID NO: 1:

65 (i) SEQUENCE CHARACTERISTICS:

66 (A) LENGTH: 15223 base pairs

67 (B) TYPE: nucleic acid

68 (C) STRANDEDNESS: single

69 (D) TOPOLOGY: linear

71 (ii) MOLECULE TYPE: cDNA

75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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77 ACGCGAAAAA ATGCGTACAA CAAACTTGCA TAAACCAAAA AAATGGGGCA AATAAGAATT      60
79 TGATAAGTAC CACTTAAATT TAACTCCCTT GGTTAGAGAT GGGCAGCAAT TCATTGAGTA      120
81 TGATAAAAGT TAGATTACAA AATTTGTTTG ACAATGATGA AGTAGCATTG TTAAAAATAA      180
83 CATGCTATAC TGATAAATTA ATACATTTAA CTAATGCTTT GGCTAAGGCA GTGATACATA      240
85 CAATCAAATT GAATGGCATT GTGTTTGTGC ATGTTATTAC AAGTAGTGAT ATTTGCCCTA      300
87 ATAATAATAT TGTAGTAAAA TCCAATTTCA CAACAATGCC AGTACTACAA AATGGAGGTT      360
89 ATATATGGGA AATGATGGAA TTAACACATT GCTCTCAACC TAATGGTCTA CTAGATGACA      420
91 ATTGTGAAAT TAAATTCTCC AAAAACTAA GTGATTCAAC AATGACCAAT TATATGAATC      480
93 AATTATCTGA ATTACTTGGA TTTGATCTTA ATCCATAAAT TATAATTAAT ATCAACTAGC      540
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99 AGACTGATGA TCACAGACAT GAGACCGTTG TCACTTGAGA CCATAATAAC ATCACTAACC      720
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103 CTTGATGAAA AGCAGGCCAC ATTTACATTC CTGGTCAACT ATGAAATGAA ACTATTACAC      840
105 AAAGTAGGAA GCACTAAATA TAAAAAATAT ACTGAATACA ACACAAAATA TGGCACTTTC      900
107 CCTATGCCAA TATTCATCAA TCATGATGGG TTCTTAGAAT GCATTGGCAT TAAGCCTACA      960
109 AAGCATACTC CCATAATATA CAAGTATGAT CTCAATCCAT AAATTTCAAC ACAATATTCA      1020
111 CACAATCTAA AACAACAACCT CTATGCATAA CTATACTCCA TAGTCCAGAT GGAGCCTGAA      1080
113 AATTATAGTA ATTTAAAACT TAAGGAGAGA TATAAGATAG AAGATGGGGC AAATACAACC      1140
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121 TTCACTGGGT TAATAGGTAT GTTATATGCG ATGTCTAGGT TAGGAAGAGA AGACACCATA      1380
123 AAAATACTCA GAGATGCGGG ATATCATGTA AAAGCAAATG GAGTAGATGT AACAACACAT      1440
125 CGTCAAGACA TTAATGGAAA AGAAATGAAA TTTGAAGTGT TAACATTGGC AAGCTTAACA      1500
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129 GAAATGGGAG AGGTAGCTCC AGAATACAGG CATGACTCTC CTGATTGTGG GATGATAATA      1620
131 TTATGTATAG CAGCATTAGT AATAACTAAA TTAGCAGCAG GGGACAGATC TGGTCTTACA      1680
133 GCCGTGATTA GGAGAGCTAA TAATGTCCTA AAAAATGAAA TGAAACGTTA CAAAGGCTTA      1740
135 CTACCCAAGG ACATAGCCAA CAGCTTCTAT GAAGTGTTTG AAAAACATCC CCACTTTATA      1800
137 GATGTTTTTG TTCATTTTGG TATAGCACAA TCTTCTACCA GAGGTGGCAG TAGAGTTGAA      1860
139 GGGATTTTTG CAGGATTGTT TATGAATGCC TATGGTGCAG GGCAAGTGAT GTTACGGTGG      1920
141 GGAGTCTTAG CAAAATCAGT TAAAAATATT ATGTTAGGAC ATGCTAGTGT GCAAGCAGAA      1980
143 ATGGAACAAG TTGTTGAGGT TTATGAATAT GCCCAAAAAT TGGGTGGTGA AGCAGGATTC      2040
145 TACCATATAT TGAACAACCC AAAAGCATCA TTATTATCTT TGAATCAATT TCCTCACTTC      2100
147 TCCAGTGTAG TATTAGGCAA TGCTGCTGGC CTAGGCATAA TGGGAGAGTA CAGAGGTACA      2160
149 CCGAGGAATC AAGATCTATA TGATGCAGCA AAGGCATATG CTGAACAACCT CAAAGAAAAT      2220
151 GGTGTGATTA ACTACAGTGT ACTAGACTTG ACAGCAGAAG AACTAGAGGC TATCAAACAT      2280
153 CAGCTTAATC CAAAAGATAA TGATGTAGAG CTTTGAGTTA ATAAAAAATG GGGCAAATAA      2340
155 ATCATCATGG AAAAGTTTGC TCCTGAATTC CATGGAGAAG ATGCAAACAA CAGGGCTACT      2400

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157	AAATTCCTAG	AATCAATAAA	GGGCAAATTC	ACATCACCCA	AAGATCCCCA	GAAAAAAGAT	2460
159	AGTATCATAT	CTGTCAACTC	AATAGATATA	GAAGTAACCA	AAGAAAGCCC	TATAACATCA	2520
161	AATTCAACTA	TTATCAACCC	AACAAATGAG	ACAGATGATA	CTGCAGGGAA	CAAGCCCAAT	2580
163	TATCAAAGAA	AACCTCTAGT	AAGTTTCAAA	GAAGACCCTA	CACCAAGTGA	TAATCCCTTT	2640
165	TCTAAACTAT	ACAAAGAAAC	CATAGAAACA	TTTGATAACA	ATGAAGAAGA	ATCCAGCTAT	2700
167	TCATACGAAG	AAATAAATGA	TCAGACAAAC	GATAATATAA	CAGCAAGATT	AGATAGGATT	2760
169	GATGAAAAAT	TAAGTGAAAT	ACTAGGAATG	CTTCACACAT	TAGTAGTGGC	AAGTGCAGGA	2820
171	CCTACATCTG	CTCGGGATGG	TATAAGAGAT	GCCATGGTTG	GTTTAAGAGA	AGAAATGATA	2880
173	GAAAAAATCA	GAAGTGAAAGC	ATTAATGACC	AATGACAGAT	TAGAAGCTAT	GGCAAGACTC	2940
175	AGGAATGAGG	AAAGTGAAAA	GATGGCAAAA	GACACATCAG	ATGAAGTGTC	TCTCAATCCA	3000
177	ACATCAGAGA	AATTGAACAA	CCTATTGGAA	GGGAATGATA	GTGACAATGA	TCTATCACTT	3060
179	GAAGATTTCT	GATTAGTTAC	CAATCTTCAC	ATCAACACAC	AATACCAACA	GAAGACCAAC	3120
181	AAACTAACCA	ACCCAATCAT	CCAACCAAAC	ATCCATCCGC	CAATCAGCCA	AACAGCCAAC	3180
183	AAAACAACCA	GCCAATCCAA	AACATAACCAC	CCGGAAAAAA	TCTATAATAT	AGTTACAAAA	3240
185	AAAGGAAAGG	GTGGGGCAAA	TATGGAAACA	TACGTGAACA	AGCTTCACGA	AGGCTCCACA	3300
187	TACACAGCTG	CTGTTCAATA	CAATGTCTTA	GAAAAAGACG	ATGACCCTGC	ATCACTTACA	3360
189	ATATGGGTGC	CCATGTTCCA	ATCATCTATG	CCAGCAGATT	TACTTATAAA	AGAAGTAGCT	3420
191	AATGTCAACA	TACTAGTGAA	ACAAATATCC	ACACCCAAGG	GACCTTCACT	AAGAGTCATG	3480
193	ATAAACTCAA	GAAGTGCAGT	GCTAGCACAA	ATGCCCAGCA	AATTTACCAT	ATGCGCTAAT	3540
195	GTGTCTTGG	ATGAAAGAAG	CAAACTAGCA	TATGATGTAA	CCACACCCTG	TGAAATCAAG	3600
197	GCATGTAGTC	TAACATGCCT	AAAATCAAAA	AATATGTTGA	CTACAGTTAA	AGATCTCACT	3660
199	ATGAAGACAC	TCAACCCTAC	ACATGATATT	ATTGCTTTAT	GTGAATTTGA	AAACATAGTA	3720
201	ACATCAAAAA	AAGTCATAAT	ACCAACATAC	CTAAGATCCA	TCAGTGTGAG	AAATAAAGAT	3780
203	CTGAACACAC	TTGAAAATAT	AACAACCACT	GAATTCAAAA	ATGCTATCAC	AAATGCAAAA	3840
205	ATCATCCCTT	ACTCAGGATT	ACTATTAGTC	ATCACAGTGA	CTGACAACAA	AGGAGCATTC	3900
207	AAATACATAA	AGCCACAAAG	TCAATTCATA	GATGATCTTG	GAGCTTACCT	AGAAAAAGAA	3960
209	AGTATATATT	ATGTTACCAC	AAATTGGAAG	CACACAGCTA	CACGATTTGC	AATCAAACCC	4020
211	ATGGAAGATT	AACCTTTTTT	CTCTACATCA	GTGTGTTAAT	TCATACAAAC	TTTCTACCTA	4080
213	CATTCTTCAC	TTCACCATCA	CAATCACAAA	CACTCTGTGG	TTCAACCAAT	CAACAAAAAC	4140
215	TTATCTGAAG	TCCCAGATCA	TCCCAGTCA	TTGTTTATCA	GATCTAGTAC	TCAAATAAGT	4200
217	TAATAAAAAA	TATACACATG	GGGCAAATAA	TCATTGGAGG	AAATCCAAC	AATCACAATA	4260
219	TCTGTTAACA	TAGACAAGTC	CACACAGGCT	ACAGAATCAA	CCAATGGAAA	ATACATCCAT	4320
221	AACAATAGAA	TTCTCAAGCA	AATTCTGGCC	TTACTTTTACA	CTAATACACA	TGATCACAAC	4380
223	AATAATCTCT	TTGCTAATCA	TAATCTCCAT	CATGATTGCA	ATACTAAACA	AACTTTGTGA	4440
225	ATATAACGTA	TTCCATAACA	AAACCTTTGA	GTTACCAAGA	GCTCGAGTCA	ACACATAGCA	4500
227	TTCATCAATC	CAACAGCCCA	AAACAGTAAC	CTTGCAATTTA	AAAATGAACA	ACCCCTACCT	4560
229	CTTTACAACA	CCTCATTAAC	ATCCCACCAT	GCAAACCACT	ATCCATACTA	TAAAGTAGTT	4620
231	AATTAAAAAT	AGTCATAACA	ATGAACTAGG	ATATCAAGAC	TAACAATAAC	ATTGGGGCAA	4680
233	ATGCAAACAT	GTCCAAAAAC	AAGGACCAAC	GCACCGCTAA	GACATTAGAA	AGGACCTGGG	4740
235	ACACTCTCAA	TCATTTATTA	TTCATATCAT	CGTGCTTATA	TAAGTTAAAT	CTTAAATCTG	4800
237	TAGCACAAAT	CACATTATCC	ATTCTGGCAA	TGATAATCTC	AACTTCACTT	ATAATTGCAG	4860
239	CCATCATATT	CATAGCCTCG	GCAAACCACA	AAGTCACACC	AACAACCTGCA	ATCATACAAG	4920
241	ATGCAACAAG	CCAGATCAAG	AACACAACCC	CAACATACCT	CACCCAGAAT	CCTCAGCTTG	4980
243	GAATCAGTCC	CTCTAATCCG	TCTGAAATTA	CATCACAAAT	CACCACCATA	CTAGCTTCAA	5040
245	CAACACCAGG	AGTCAAGTCA	ACCCTGCAAT	CCACAACAGT	CAAGACCAAA	AACACAACAA	5100
247	CAACTCAAAC	ACAACCCAGC	AAGCCCACCA	CAAAACAACG	CCAAAACAAA	CCACCAAGCA	5160
249	AACCCAATAA	TGATTTTCAC	TTTGAAGTGT	TCAACTTTGT	ACCCTGCAGC	ATATGCAGCA	5220
251	ACAATCCAAC	CTGCTGGGCT	ATCTGCAAAA	GAATACCAAA	CAAAAAACCA	GGAAAGAAAA	5280
253	CCACTACCAA	GCCCACAAAA	AAACCAACCC	TCAAGACAAC	CAAAAAAGAT	CCCAAACCTC	5340

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255	AAACCACTAA	ATCAAAGGAA	GTACCCACCA	CCAAGCCCAC	AGAAGAGCCA	ACCATCAACA	5400
257	CCACCAAAAC	AAACATCATA	ACTACACTAC	TCACCTCCAA	CACCACAGGA	AATCCAGAAC	5460
259	TCACAAGTCA	AATGGAAACC	TTCCACTCAA	CTTCCTCCGA	AGGCAATCCA	AGCCCTTCTC	5520
261	AAGTCTCTAC	AACATCCGAG	TACCCATCAC	AACCTTCATC	TCCACCCAAC	ACACCACGCC	5580
263	AGTAGTTACT	TAAAAACATA	TTATCACAAA	AGGCCTTGAC	CAACTTAAAC	AGAATCAAAA	5640
265	TAAACTCTGG	GGCAAATAAC	AATGGAGTTG	CTAATCCTCA	AAGCAAATGC	AATTACCACA	5700
267	ATCCTCACTG	CAGTCACATT	TTGTTTTGCT	TCTGGTCAAA	ACATCACTGA	AGAATTTTAT	5760
269	CAATCAACAT	GCAGTGCAGT	TAGCAAAGGC	TATCTTAGTG	CTCTGAGAAC	TGGTTGGTAT	5820
271	ACCAGTGTTA	TAAGTATAGA	ATTAAGTAAT	ATCAAGAAAA	ATAAGTGTA	TGGAACAGAT	5880
273	GCTAAGGTAA	AATTGATAAA	ACAAGAATTA	GATAAATATA	AAAATGCTGT	AACAGAATTG	5940
275	CAGTTGCTCA	TGCAAAGCAC	ACAAGCAACA	AACAATCGAG	CCAGAAGAGA	ACTACCAAGG	6000
277	TTTATGAATT	ATACACTCAA	CAATGCCAAA	AAAACCAATG	TAACATTAAG	CAAGAAAAGG	6060
279	AAAAGAAGAT	TTCTTGGTTT	TTTGTTAGGT	GTTGGATCTG	CAATCGCCAG	TGGCGTTGCT	6120
281	GTATCTAAGG	TCCTGCACCT	AGAAGGGGAA	GTGAACAAGA	TCAAAAGTGC	TCTACTATCC	6180
283	ACAAACAAGG	CTGTAGTCAG	CTTATCAAAT	GGAGTTAGTG	TTTTAACCAG	CAAAGTGTTA	6240
285	GACCTCAAAA	ACTATATAGA	TAAACAATTG	TTACCTATTG	TGAACAAGCA	AAGCTGCAGC	6300
287	ATATCAATA	TAGAACTGT	GATAGAGTTC	CAACAAAAGA	ACAACAGACT	ACTAGAGATT	6360
289	ACCAGGGAAT	TTAGTGTTAA	TGCAGGCGTA	ACTACACCTG	TAAGCACTTA	CATGTTAACT	6420
291	AATAGTGAAT	TATTGTCATT	AATCAATGAT	ATGCCTATAA	CAAATGATCA	GAAAAAGTTA	6480
293	ATGTCCAACA	ATGTTCAAAT	AGTTAGACAG	CAAAGTTACT	CTATCATGTC	CATAATAAAA	6540
295	GAGGAAGTCT	TAGCATATGT	AGTACAATTA	CCACTATATG	GTGTTATAGA	TACACCCTGT	6600
297	TGGAAGTAC	ACACATCCCC	TCTATGTACA	ACCAACACAA	AAGAAGGGTC	CAACATCTGT	6660
299	TTAACAAGAA	CTGACAGAGG	ATGGTACTGT	GACAATGCAG	GATCAGTATC	TTTCTTCCCA	6720
301	CAAGCTGAAA	CATGTAAAGT	TCAATCAAAT	CGAGTATTTT	GTGACACAAT	GAACAGTTTA	6780
303	ACATTACCAA	GTGAAGTAAA	TCTCTGCAAT	GTTGACATAT	TCAACCCCAA	ATATGATTGT	6840
305	AAAATTATGA	CTTCAAAAAC	AGATGTAAGC	AGCTCCGTTA	TCACATCTCT	AGGAGCCATT	6900
307	GTGTCATGCT	ATGGCAAAAC	TAAATGTACA	GCATCCAATA	AAAATCGTGG	AATCATAAAG	6960
309	ACATTTTCTA	ACGGGTGCGA	TTATGTATCA	AATAAAGGGG	TGGACACTGT	GTCTGTAGGT	7020
311	AACACATTAT	ATTATGTAAA	TAAGCAAGAA	GGTAAAAGTC	TCTATGTAAA	AGGTGAACCA	7080
313	ATAATAAATT	TCTATGACCC	ATTAGTATTC	CCCTCTGATG	AATTTGATGC	ATCAATATCT	7140
315	CAAGTCAACG	AGAAGATTAA	CCAGAGCCTA	GCATTTATTC	GTAAATCCGA	TGAATTATTA	7200
317	CATAATGTAA	ATGCTGGTAA	ATCCACCACA	AATATCATGA	TAATACTAT	AATTATAGTG	7260
319	ATTATAGTAA	TATTGTTATC	ATTAATTGCT	GTTGGACTGC	TCTTATACTG	TAAGGCCAGA	7320
321	AGCACACCAG	TCACACTAAG	CAAAGATCAA	CTGAGTGGTA	TAAATAATAT	TGCATTTAGT	7380
323	AATAAATAA	AAATAGCACC	TAATCATGTT	CTTACAATGG	TTTACTATCT	GCTCATAGAC	7440
325	AACCCATCTG	TCATTGGATT	TTCTTAAAAT	CTGAACCTCA	TCGAAACTCT	CATCTATAAA	7500
327	CCATCTCACT	TACACTATTT	AAGTAGATTC	CTAGTTTATA	GTTATATAAA	ACACAATTGC	7560
329	ATGCCAGATT	AACTTACCAT	CTGTAAAAAT	GAAAACCTGG	GCAAATATGT	CACGAAGGAA	7620
331	TCCTTGCAAA	TTTGAAATTC	GAGGTCATTG	CTTAAATGGT	AAGAGGTGTC	ATTTTAGTCA	7680
333	TAATTATTTT	GAATGGCCAC	CCCATGCACT	GCTTGTAAGA	CAAACTTTTA	TGTTAAACAG	7740
335	AATACTTAAG	TCTATGGATA	AAAGTATAGA	TACCTTATCA	GAAATAAGTG	GAGCTGCAGA	7800
337	GTTGGACAGA	ACAGAAGAGT	ATGCTCTTGG	TGTAGTTGGA	GTGCTAGAGA	GTTATATAGG	7860
339	ATCAATAAAC	AATATAACTA	AACAATCAGC	ATGTGTTGCC	ATGAGCAAAC	TCCTCACTGA	7920
341	ACTCAATAGT	GATGATATCA	AAAAGCTGAG	GGACAATGAA	GAGCTAAATT	CACCCAAGAT	7980
343	AAGAGTGTAC	AATACTGTCA	TATCATATAT	TGAAAGCAAC	AGGAAAAACA	ATAAACAAAC	8040
345	TATCCATCTG	TTAAAAAGAT	TGCCAGCAGA	CGTATTGAAG	AAAACCATCA	AAAACACATT	8100
347	GGATATCCAT	AAGAGCATAA	CCATCAACAA	CCCAAAAGAA	TCAACTGTTA	GTGATACAAA	8160
349	TGACCATGCC	AAAAATAATG	ATACTACCTG	ACAAATATCC	TTGTAGTATA	ACTTCCATAC	8220
351	TAATAACAAG	TAGATGTAGA	GTTACTATGT	ATAATCAAAA	GAACACACTA	TATTTCAATC	8280

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353	AAAACAACCC	AAATAACCAT	ATGTACTCAC	CGAATCAAAC	ATTCAATGAA	ATCCATTGGA	8340
355	CCTCTCAAGA	ATTGATTGAC	ACAATTCAAA	ATTTTCTACA	ACATCTAGGT	ATTATTGAGG	8400
357	ATATATATAC	AATATATATA	TTAGTGTCAT	AACACTCAAT	TCTAACACTC	ACCACATCGT	8460
359	TACATTATTA	ATTCAAACAA	TTCAAGTTGT	GGGACAAAAT	GGATCCCATT	ATTAATGGAA	8520
361	ATTCTGCTAA	TGTTTATCTA	ACCGATAGTT	ATTTAAAAGG	TGTTATCTCT	TTCTCAGAGT	8580
363	GTAATGCTTT	AGGAAGTTAC	ATATTCAATG	GTCCTTATCT	CAAAAATGAT	TATACCAACT	8640
365	TAATTAGTAG	ACAAAATCCA	TTAATAGAAC	ACATGAATCT	AAAGAACTA	AATATAACAC	8700
367	AGTCCTTAAT	ATCTAAGTAT	CATAAAGGTG	AAATAAAATT	AGAAGAACCT	ACTTATTTTC	8760
369	AGTCATTACT	TATGACATAC	AAGAGTATGA	CCTCGTCAGA	ACAGATTGCT	ACCACTAATT	8820
371	TACTTAAAAA	GATAATAAGA	AGAGCTATAG	AAATAAGTGA	TGTCAAAGTC	TATGCTATAT	8880
373	TGAATAAACT	AGGGCTTAAA	GAAAAGGACA	AGATTAAATC	CAACAATGGA	CAAGATGAAG	8940
375	ACAACCTCAGT	TATTACGACC	ATAATCAAAG	ATGATATACT	TTCAGCTGTT	AAAGATAATC	9000
377	AATCTCATCT	TAAAGCAGAC	AAAAATCACT	CTACAAAACA	AAAAGACACA	ATCAAAACAA	9060
379	CACTCTTGAA	GAAATTGATG	TGTTCAATGC	AACATCCTCC	ATCATGGTTA	ATACATTGGT	9120
381	TTAACTTATA	CACAAAATTA	AACAACATAT	TAACACAGTA	TCGATCAAAT	GAGGTAAAAA	9180
383	ACCATTGGTT	TACATTGATA	GATAATCAAA	CTCTTAGTGG	ATTTCAATTT	ATTTTGAACC	9240
385	AATATGGTTG	TATAGTTTAT	CATAAGGAAC	TCAAAAGAAT	TACTGTGACA	ACCTATAATC	9300
387	AATTCTTGAC	ATGGAAAGAT	ATTAGCCTTA	GTAGATTAAA	TGTTTGTTTA	ATTACATGGA	9360
389	TTAGTAACTG	CTTGAACACA	TTAAATAAAA	GCTTAGGCTT	AAGATGCGGA	TTCAATAATG	9420
391	TTATCTTGAC	ACAACCTATTC	CTTTATGGAG	ATTGTATACT	AAAGCTATTT	CACAATGAGG	9480
393	GGTTCTACAT	AATAAAAGAG	GTAGAGGGAT	TTATTATGTC	TCTAATTTTA	AATATAACAG	9540
395	AAGAAGATCA	ATTCAGAAAA	CGATTTTATA	ATAGTATGCT	CAACAACATC	ACAGATGCTG	9600
397	CTAATAAAGC	TCAGAAAAAT	CTGCTATCAA	GAGTATGTCA	TACATTATTA	GATAAGACAG	9660
399	TGTCCGATAA	TATAATAAAT	GGCAGATGGA	TAATTCTATT	AAGTAAGTTC	CTTAAATTAA	9720
401	TTAAGCTTGC	AGGTGACAAT	AACCTTAACA	ATCTGAGTGA	ACTATATTTT	TTGTTCAGAA	9780
403	TATTTGGACA	CCCAATGGTA	GATGAAAGAC	AAGCCATGGA	TGCTGTTAAA	ATTAATTGCA	9840
405	ATGAGACCAA	ATTTTACTTG	TTAAGCAGTC	TGAGTATGTT	AAGAGGTGCC	TTTATATATA	9900
407	GAATTATAAA	AGGGTTTGTA	AATAATTACA	ACAGATGGCC	TACTTTAAGA	AATGCTATTG	9960
409	TTTTACCCTT	AAGATGGTTA	ACTTACTATA	AACTAAACAC	TTATCCTTCT	TTGTTGGAAC	10020
411	TTACAGAAAG	AGATTTGATT	GTGTTATCAG	GACTACGTTT	CTATCGTGAG	TTTCGGTTGC	10080
413	CTAAAAAAGT	GGATCTTGAA	ATGATTATAA	ATGATAAAGC	TATATCACCT	CCTAAAAATT	10140
415	TGATATTGAC	TAGTTTCCCT	AGAAATTACA	TGCCATCACA	CATACAAAAC	TATATAGAAC	10200
417	ATGAAAAAAT	AAAATTTTCC	GAGAGTGATA	AATCAAGAAG	AGTATTAGAG	TATTATTTAA	10260
419	GAGATAACAA	ATTCATGAA	TGTGATTTAT	ACAACGTGTG	AGTTAATCAA	AGTTATCTCA	10320
421	ACAACCCTAA	TCATGTGGTA	TCATTGACAG	GCAAAGAAAG	AGAACCTCAGT	GTAGGTAGAA	10380
423	TGTTTGCAAT	GCAACCGGGA	ATGTTCAAG	AGGTTCAAAT	ATTGGCAGAG	AAAATGATAG	10440
425	CTGAAAACAT	TTTACAATTC	TTTCCTGAAA	GTCTTACAAG	ATATGGTGAT	CTAGAACTAC	10500
427	AAAAAATATT	AGAACTGAAA	GCAGGAATAA	GTAACAAATC	AAATCGCTAC	AATGATAATT	10560
429	ACAACAATTA	CATTAGTAAG	TGCTCTATCA	TCACAGATCT	CAGCAAATTC	AATCAAGCAT	10620
431	TTCGATATGA	AACGTCATGT	ATTTGTAGTG	ATGTGCTGGA	TGAACGTCAT	GGTGTACAAT	10680
433	CTCTATTTTC	CTGGTTACAT	TTAACTATTC	CTCATGTCAC	AATAATATGC	ACATATAGGC	10740
435	ATGCACCCCC	CTATATAGGA	GATCATATTG	TAGATCTTAA	CAATGTAGAT	GAACAAAGTG	10800
437	GATTATATAG	ATATCACATG	GGTGGCATCG	AAGGGTGGTG	TCAAAAACCTA	TGGACCATAG	10860
439	AAGCTATATC	ACTATTGGAT	CTAATATCTC	TCAAAGGGAA	ATTCTCAATT	ACTGCTTTAA	10920
441	TTAATGGTGA	CAATCAATCA	ATAGATATAA	GCAAACCAAT	CAGACTCATG	GAAGGTCAAA	10980
443	CTCATGCTCA	AGCAGATTAT	TTGCTAGCAT	TAAATAGCCT	TAAATTACTG	TATAAAGAGT	11040
445	ATGCAGGCAT	AGGCCACAAA	TTAAAAGGAA	CTGAGACTTA	TATATCACGA	GATATGCAAT	11100
447	TTATGAGTAA	AACAATTCAA	CATAACGGTG	TATATTACCC	AGCTAGTATA	AAGAAAGTCC	11160
449	TAAGAGTGGG	ACCGTGGATA	AACACTATAC	TTGATGATTT	CAAAGTGAGT	CTAGAATCTA	11220

VERIFICATION SUMMARY

DATE: 02/16/2005

PATENT APPLICATION: US/09/444,067A

TIME: 14:35:43

Input Set : N:\Crf3\RULE60\09444067A.raw.txt

Output Set: N:\CRF4\02162005\I444067A.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:38 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1) (vii)